

UNITED STATES DEPARTMENT OF COMMERCE Pat int and Trademark Office

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.
09/034,336	03/04/98	AGA		Н	AGA-6
- 001444	001444 HM12/080:			EXAMINER	
BROWDY AND NEIMARK, F.L.L.C.				MORAN, M	
624 NINTH STREET, NW SUITE 300				ART UNIT	PAPER NUMBER
WASHINGTON	303		1631	18	
				DATE MAILED:	08/01/00

Please find below and/or attached an Office communication concerning this application r proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No. 09/034,336

Applicant(s)

Aga et al.

Examiner

Marjorie Moran

Group Art Unit 1631



X Responsive to communication(s) filed on <u>Feb</u>	22, 2000 .				
☐ This action is FINAL .					
☐ Since this application is in condition for allowa in accordance with the practice under Ex parts	nce except for formal matters, prosecution as to the merits is closed as Quayle, 1935 C.D. 11; 453 O.G. 213.				
is longer, from the mailing date of this communic	action is set to expirethree month(s), or thirty days, whichever ation. Failure to respond within the period for response will cause the 133). Extensions of time may be obtained under the provisions of				
Disposition of Claims					
	is/are pending in the application.				
Of the above, claim(s)	is/are withdrawn from consideration.				
☐ Claim(s)	is/are allowed.				
	is/are rejected.				
☐ Claim(s)	is/are objected to.				
	are subject to restriction or election requirement.				
Application Papers					
☐ See the attached Notice of Draftsperson's f	Patent Drawing Review, PTO-948.				
☐ The drawing(s) filed on	_ is/are objected to by the Examiner.				
\Box The proposed drawing correction, filed on $_$	is Capproved Cdisapproved.				
☐ The specification is objected to by the Examiner.					
\square The oath or declaration is objected to by the	e Examiner.				
Priority under 35 U.S.C. § 119					
Acknowledgement is made of a claim for for					
<u> </u>	FIED copies of the priority documents have been				
received.					
	ode/Serial Number)				
	ation from the International Bureau (PCT Rule 17.2(a)).				
☐ Acknowledgement is made of a claim for de					
Attachment(s)					
✓ Notice of References Cited, PTO-892					
☐ Information Disclosure Statement(s), PTO-1449, Paper No(s).					
☑ Interview Summary, PTO-413					
\square Notice of Draftsperson's Patent Drawing Re	view, PTO-948				
☐ Notice of Informal Patent Application, PTO-	152				

- SEE OFFICE ACTION ON THE FOLLOWING PAGES -

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DETAILED ACTION

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Continued Prosecution Application

A preliminary amendment was filed 2/22/00, before the mailing date of the previous office action (4/10/00), but was not entered until after the office action had been mailed. In addition, although the office action itself did not indicate finality, the cover sheet of that office action improperly indicated that the action was a final action. The examiner regrets the confusion and hereby withdraws any finality attributed to the office action of 4/10/00. The amendments filed 2/22/00 and 6/23/00 have been entered.

Claims 5-6, 9-10, and 27-30 are pending. An action on the merits of the pending claims follows.

Claim Rejections - 35 USC § 112

Claim 5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Claim 5 recites "said plant which is in a juicy form of .. (an) extracted plant-edible-part" in lines 7-8. An "extracted plant-edible-part" of a plant in juicy form has no antecedent basis, therefore the claim is indefinite.

Claim Rejections - 35 USC § 103

Claims 5-6, 9-10, and 27-30 are newly rejected under 35 U.S.C. 103(a) as being unpatentable over MARUTA et al. (A), as supported by CARDONA.

Applicant's arguments with respect to claims 5-6, 9-10, and 27-30 have been considered but are most in view of the new ground(s) of rejection. Applicant's arguments filed 2/22/00 and 6/23/00 are addressed below.

The amended claims recite a method for inhibiting the decrease of naturally occurring active-oxygen-eliminating activity in a plant wherein the plant is sliced or disrupted or an edible plant part is disrupted by incorporating an inhibitory agent, specifically trehalose, into the sliced or disrupted plant in an aqueous system.

As previously set forth and maintained, MARUTA teaches addition of trehalose to various foods, and makes obvious a method of stabilizing antioxidants in "juicy" foodstuffs.

MARUTA specifically teaches that trehalose may be added to juices (col. 13, line 46) and to fruit paste or spread, jams or marmalade (col. 12, lines 22-23). Fruit pastes, spreads, jams, and jelly usually comprise "disrupted" plant edible parts. Marmalade comprises sliced fruit rinds.

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MARUTA also teaches adding trehalose to sliced pickles (col. 13, line 27). MARUTA also teaches addition of trehalose to orange juice, as previously set forth. As many fruits and vegetables, specifically oranges, are known to comprise "naturally occurring" antioxidants (e.g. vitamins A and C are found in oranges, strawberries, apples, etc. commonly used to make juices and jams), addition of trehalose to jams, jellies, juices, etc. would necessarily result in stabilization of the "naturally occurring" antioxidants therein.

Applicant argues that MARUTA does not teach stabilization of "naturally occurring" antioxidants. However, on page 4 of the response filed 6/23/00, applicant admits that MARUTA teaches trehalose as a "stabilizer for biologically active substances susceptible to loss of their effective ingredients, and activities" (emphasis added by examiner) wherein the biologically active substances include vitamins and enzymes. Applicant further argues that stabilization of the biologically active substances would not result in stabilization of naturally occurring "active-oxygen-eliminating" activity as the biologically active substances do not have such activity. As previously set forth, it is noted that "active-oxygen-eliminating" is a broader term than antioxidant. However, the examiner maintains that an antioxidant is a species of the genus of "active-oxygen-eliminating" agents and maintains that a teaching to stabilize antioxidant activity is a teaching for a reduction in the inhibition of such activity. As previously set forth, examples of "biologically active substances" taught by MARUTA include thiamin, riboflavin, and L-ascorbic acid. Riboflavin, thiamine, and ascorbic acid are well known in the art to be antioxidants, as supported by CARDONA (abstract). Addition of trehalose to any food substance

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comprising these antioxidant compounds would therefore result in their stabilization. MARUTA teaches that trehalose can be added to various fruit jams, jellies, and juices, etc., wherein many fruits and vegetables comprise vitamins, and wherein orange juice, specifically taught by MARUTA, in known to comprise vitamin C (ascorbic acid). For all of the reasons previously set forth and set forth above, the method claimed is obvious and the rejection of claims 5-6, 9-10, and 27-30 is maintained.

Conclusion

Claims 5-6, 9-10 and 27-30 are again rejected.

Papers relating to this application may be submitted to Technology Center 1600 by facsimile transmission. The number of the fax machine for official papers in Technology Center 1600 is (703) 308-4556. Any document submitted by facsimile transmission will be considered an official communication unless the cover sheet clearly indicates that it is an informal communication.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marjorie Moran whose telephone number is (703) 305-2363. The examiner can normally be reached on Monday through Friday from 7:30 a.m. to 4:00 p.m. If attempts to reach the examiner by telephone are unsuccessful, a supervisory examiner, Michael Woodward, can be reached at (703) 308-4028. Any inquiry of a general nature or relating to the status of this

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application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-1235.

Marjorie A. Moran Patent Examiner Art Unit 1631

> ARDIN H. MARSCHEL PRIMARY EXAMINER